

WEST Search History

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DATE: Wednesday, January 19, 2005

| Hide? | Set Name | Query | Hit Count |
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| | | <i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i> | |
| <input type="checkbox"/> | L12 | L6 and bacillus and ksm-ap1378 | 19 |
| <input type="checkbox"/> | L11 | L8 not l4 | 58 |
| <input type="checkbox"/> | L10 | L9 not l4 | 5 |
| <input type="checkbox"/> | L9 | bacillus with 1378 | 10 |
| <input type="checkbox"/> | L8 | L6 and bacillus and 1378 | 80 |
| <input type="checkbox"/> | L6 | amylase with (gene or sequence) | 5623 |
| <input type="checkbox"/> | L5 | L4 not l2 | 21 |
| <input type="checkbox"/> | L4 | L3 and 1378 | 22 |
| <input type="checkbox"/> | L3 | L1 with (gene or sequence) | 1837 |
| <input type="checkbox"/> | L2 | L1 with 1378 | 1 |
| <input type="checkbox"/> | L1 | amylase with bacillus | 3653 |

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Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 6486113 B1

Using default format because multiple data bases are involved.

L2: Entry 1 of 1

File: USPT

Nov 26, 2002

US-PAT-NO: 6486113

DOCUMENT-IDENTIFIER: US 6486113 B1

**** See image for Certificate of Correction ****

TITLE: Mutant .alpha.-amylases

DATE-ISSUED: November 26, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------|---------|-------|----------|---------|
| Hatada; Yuji | Tochigi | | | JP |
| Ikawa; Kaori | Tochigi | | | JP |
| Ito; Susumu | Tochigi | | | JP |
| Igarashi; Kazuaki | Tochigi | | | JP |
| Hagihara; Hiroshi | Tochigi | | | JP |
| Hayashi; Yasuhiro | Tochigi | | | JP |
| Araki; Hiroyuki | Tochigi | | | JP |
| Ozaki; Katsuya | Tochigi | | | JP |

US-CL-CURRENT: 510/392; 435/113, 435/187, 435/202, 435/204, 435/263, 435/440,
435/442, 510/300, 510/320, 510/530

| | | | | | | | | | | | | |
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| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|

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| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |
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| L1 with 1378 | 1 |

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Search Results - Record(s) 1 through 10 of 21 returned.

☐ 1. Document ID: US 20040265959 A1

Using default format because multiple data bases are involved.

L5: Entry 1 of 21

File: PGPB

Dec 30, 2004

PGPUB-DOCUMENT-NUMBER: 20040265959

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040265959 A1

TITLE: Highly productive alpha-amylases

PUBLICATION-DATE: December 30, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|-------------------|---------|-------|---------|---------|
| Araki, Hiroyuki | Tochigi | | JP | |
| Endo, Keiji | Tochigi | | JP | |
| Hagihara, Hiroshi | Tochigi | | JP | |
| Igarashi, Kazuaki | Tochigi | | JP | |
| Hayashi, Yasuhiro | Tochigi | | JP | |
| Ozaki, Katsuya | Tochigi | | JP | |

US-CL-CURRENT: [435/69.1](#); [435/204](#), [435/252.3](#), [435/320.1](#), [510/320](#), [536/23.2](#)

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWC | Draw. Data |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|------------|
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☐ 2. Document ID: US 20040249125 A1

L5: Entry 2 of 21

File: PGPB

Dec 9, 2004

PGPUB-DOCUMENT-NUMBER: 20040249125

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040249125 A1

TITLE: Outer membrane vesicle (omv) vaccine comprising n. meningitidis serogroup b outer membrane proteins

PUBLICATION-DATE: December 9, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|--------------------|-------|-------|---------|---------|
| Pizza, Mariagrazia | Siena | | IT | |

h e b b g e e e f e ef b e

| | | |
|-------------------------|-------|----|
| Rappuoli, Rino | Siena | IT |
| Giuliani, Marzia Monica | Siena | IT |

US-CL-CURRENT: 530/350

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|

☐ 3. Document ID: US 20040107461 A1

L5: Entry 3 of 21

File: PGPB

Jun 3, 2004

PGPUB-DOCUMENT-NUMBER: 20040107461
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040107461 A1

TITLE: Glucan chain length domains

PUBLICATION-DATE: June 3, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|-------------------|--------|-------|---------|---------|
| Commuri, Padma | Ankeny | IA | US | |
| Keeling, Peter L. | Ames | IA | US | |
| Ramirez, Nona | Ames | IA | US | |
| McKean, Angela | Ames | IA | US | |
| Gao, Zhong | Ames | IA | US | |
| Guan, Hanping | Ames | IA | US | |

US-CL-CURRENT: 800/284; 435/101, 435/193, 435/320.1, 435/419, 435/69.1, 536/102,
536/23.2

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
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☐ 4. Document ID: US 20040082028 A1

L5: Entry 4 of 21

File: PGPB

Apr 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040082028
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040082028 A1

TITLE: Pullulanase variants and methods for preparing such variants with predetermined properties

PUBLICATION-DATE: April 29, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|-----------------|----------|-------|---------|---------|
| Svendsen, Allan | Birkerod | | DK | |

h e b b g e e e f e ef b e

US-CL-CURRENT: [435/69.1](#); [435/18](#), [435/210](#), [435/325](#), [435/6](#), [702/19](#)

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
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☐ 5. Document ID: US 20040048247 A1

L5: Entry 5 of 21

File: PGPB

Mar 11, 2004

PGPUB-DOCUMENT-NUMBER: 20040048247

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040048247 A1

TITLE: Pullulanase variants and methods for preparing such variants with predetermined properties

PUBLICATION-DATE: March 11, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|------------------------|-------------------|-------|---------|---------|
| Svendsen, Allan | Overdamsvej | | DK | |
| Andersen, Carsten | Hojeloft Vaenge | | DK | |
| Borchert, Torben Vedel | Biskop Svanes Vej | | DK | |

US-CL-CURRENT: [435/6](#); [435/210](#), [435/320.1](#), [435/325](#), [435/69.1](#), [536/23.2](#), [703/11](#)

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|

☐ 6. Document ID: US 20030166158 A1

L5: Entry 6 of 21

File: PGPB

Sep 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030166158

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030166158 A1

TITLE: NTR3, a novel member of the TNF-receptor supergene family

PUBLICATION-DATE: September 4, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|--------------|----------|-------|---------|---------|
| Hsu, Hailing | Moorpark | CA | US | |

US-CL-CURRENT: [435/69.5](#); [435/320.1](#), [435/325](#), [530/351](#), [536/23.5](#)

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|

☐ 7. Document ID: US 20030129718 A1

L5: Entry 7 of 21

File: PGPB

Jul 10, 2003

h e b b g e e e f e ef b e

PGPUB-DOCUMENT-NUMBER: 20030129718
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030129718 A1

TITLE: Amylase variants

PUBLICATION-DATE: July 10, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|--------------------------|----------|-------|---------|---------|
| Andersen, Carsten | Vaerlose | | DK | |
| Borchert, Torben Vedel | Birkerod | | DK | |
| Nielsen, Bjarne Ronfeldt | Virum | | DK | |

US-CL-CURRENT: 435/183; 510/392

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|--------|

☐ 8. Document ID: US 20020197698 A1

L5: Entry 8 of 21

File: PGPB

Dec 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020197698
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020197698 A1

TITLE: Novel amylases

PUBLICATION-DATE: December 26, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|-------------------|----------|-------|---------|---------|
| Hagihara, Hiroshi | Haga-gun | | JP | |
| Kitayama, Kaori | Haga-gun | | JP | |
| Hayashi, Yasuhiro | Haga-gun | | JP | |
| Igarashi, Kazuaki | Haga-gun | | JP | |
| Endo, Keiji | Haga-gun | | JP | |
| Ozaki, Katsuya | Haga-gun | | JP | |

US-CL-CURRENT: 435/201; 435/320.1, 435/325, 435/69.1, 536/23.2

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|--------|

☐ 9. Document ID: US 20020123124 A1

L5: Entry 9 of 21

File: PGPB

Sep 5, 2002

PGPUB-DOCUMENT-NUMBER: 20020123124
PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020123124 A1

TITLE: Highly productive alpha-amylases

PUBLICATION-DATE: September 5, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|-------------------|----------|-------|---------|---------|
| Araki, Hiroyuki | Haga-gun | | JP | |
| Endo, Keiji | Haga-gun | | JP | |
| Hagihara, Hiroshi | Haga-gun | | JP | |
| Igarashi, Kazuaki | Haga-gun | | JP | |
| Hayashi, Yasuhiro | Haga-gun | | JP | |
| Ozaki, Katsuya | Haga-gun | | JP | |

US-CL-CURRENT: 435/202; 435/320.1, 435/325, 435/69.1, 536/23.2

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Drawings |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|

☐ 10. Document ID: US 6838257 B2

L5: Entry 10 of 21

File: USPT

Jan 4, 2005

US-PAT-NO: 6838257

DOCUMENT-IDENTIFIER: US 6838257 B2

TITLE: Pullulanase variants and methods for preparing such variants with predetermined properties

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Drawings |
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| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |
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Search Results - Record(s) 11 through 20 of 21 returned.

☐ 11. Document ID: US 6743616 B2

Using default format because multiple data bases are involved.

L5: Entry 11 of 21

File: USPT

Jun 1, 2004

US-PAT-NO: 6743616

DOCUMENT-IDENTIFIER: US 6743616 B2

**** See image for Certificate of Correction ****

TITLE: Highly productive alpha-amylases

DATE-ISSUED: June 1, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------|----------|-------|----------|---------|
| Araki; Hiroyuki | Haga-gun | | | JP |
| Endo; Keiji | Haga-gun | | | JP |
| Hagihara; Hiroshi | Haga-gun | | | JP |
| Igarashi; Kazuaki | Haga-gun | | | JP |
| Hayashi; Yasuhiro | Haga-gun | | | JP |
| Ozaki; Katsuya | Haga-gun | | | JP |

US-CL-CURRENT: 435/202; 435/183, 435/200, 435/4, 435/6, 435/69.1, 510/114, 510/392, 510/515, 536/23.2, 536/23.7

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KUMC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|

☐ 12. Document ID: US 6656709 B1

L5: Entry 12 of 21

File: USPT

Dec 2, 2003

US-PAT-NO: 6656709

DOCUMENT-IDENTIFIER: US 6656709 B1

**** See image for Certificate of Correction ****

TITLE: Methods of increasing the production of cobalamins using cob gene expression

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KUMC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|

☐ 13. Document ID: US 6599716 B1

L5: Entry 13 of 21

File: USPT

Jul 29, 2003

US-PAT-NO: 6599716

DOCUMENT-IDENTIFIER: US 6599716 B1

TITLE: Nucleic acids encoding NTR3, a member of the TNF-receptor supergene family

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|---------|

☐ 14. Document ID: US 6403355 B1

L5: Entry 14 of 21

File: USPT

Jun 11, 2002

US-PAT-NO: 6403355

DOCUMENT-IDENTIFIER: US 6403355 B1

TITLE: Amylases

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|---------|

☐ 15. Document ID: US 6350599 B1

L5: Entry 15 of 21

File: USPT

Feb 26, 2002

US-PAT-NO: 6350599

DOCUMENT-IDENTIFIER: US 6350599 B1

TITLE: Pullulanase variants and methods for preparing such variants with predetermined properties

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|---------|
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☐ 16. Document ID: US 6281181 B1

L5: Entry 16 of 21

File: USPT

Aug 28, 2001

US-PAT-NO: 6281181

DOCUMENT-IDENTIFIER: US 6281181 B1

TITLE: Light-duty liquid or gel dishwashing detergent compositions comprising mid-chain branched surfactants

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|---------|

☐ 17. Document ID: US 6162628 A

L5: Entry 17 of 21

File: USPT

Dec 19, 2000

US-PAT-NO: 6162628

DOCUMENT-IDENTIFIER: US 6162628 A

TITLE: Maltogenic alpha-amylase variants

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KMOC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|---------|

☐ 18. Document ID: US 5981229 A

L5: Entry 18 of 21

File: USPT

Nov 9, 1999

US-PAT-NO: 5981229

DOCUMENT-IDENTIFIER: US 5981229 A

TITLE: Bacterial exported proteins and acellular vaccines based thereon

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KMOC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|---------|

☐ 19. Document ID: US 5928900 A

L5: Entry 19 of 21

File: USPT

Jul 27, 1999

US-PAT-NO: 5928900

DOCUMENT-IDENTIFIER: US 5928900 A

TITLE: Bacterial exported proteins and acellular vaccines based thereon

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KMOC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|---------|
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☐ 20. Document ID: US 5212074 A

L5: Entry 20 of 21

File: USPT

May 18, 1993

US-PAT-NO: 5212074

DOCUMENT-IDENTIFIER: US 5212074 A

TITLE: Genetic material encoding new insulin-like growth factor binding protein
IGFBP-6

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KMOC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|---------|
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| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs |
| Generate OACS | | | | |

Search Results - Record(s) 21 through 21 of 21 returned.

☐ 21. Document ID: JP 08336392 A

Using default format because multiple data bases are involved.

L5: Entry 21 of 21

File: JPAB

Dec 24, 1996

PUB-NO: JP408336392A

DOCUMENT-IDENTIFIER: JP 08336392 A

TITLE: LIQUEFIED-TYPE ALKALI ALPHA-AMYLASE GENE

PUBN-DATE: December 24, 1996

INVENTOR-INFORMATION:

NAME

COUNTRY

HATADA, YUUII

OZAKI, KATSUYA

ARA, KATSUTOSHI

KAWAI, SHUJI

ITO, SUSUMU

INT-CL (IPC): C12 N 15/09; C12 N 9/28

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWAC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|
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| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |
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Search Results - Record(s) 11 through 19 of 19 returned.

☐ 11. Document ID: US 6638748 B2

Using default format because multiple data bases are involved.

L12: Entry 11 of 19

File: USPT

Oct 28, 2003

US-PAT-NO: 6638748

DOCUMENT-IDENTIFIER: US 6638748 B2

TITLE: Gene encoding alkaline liquifying alpha-amylase

DATE-ISSUED: October 28, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------|---------|-------|----------|---------|
| Hatada; Yuji | Tochigi | | | JP |
| Ozaki; Katsuya | Tochigi | | | JP |
| Ara; Katsutoshi | Tochigi | | | JP |
| Kawai; Shuji | Tochigi | | | JP |
| Ito; Susumu | Tochigi | | | JP |

US-CL-CURRENT: 435/202; 435/252.3, 435/252.33, 435/320.1, 536/23.2

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KMC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|--------|
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☐ 12. Document ID: US 6623948 B1

L12: Entry 12 of 19

File: USPT

Sep 23, 2003

US-PAT-NO: 6623948

DOCUMENT-IDENTIFIER: US 6623948 B1

TITLE: Nucleic acid sequences encoding alkaline alpha-amylases

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KMC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|--------|
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☐ 13. Document ID: US 6528298 B1

L12: Entry 13 of 19

File: USPT

Mar 4, 2003

US-PAT-NO: 6528298

DOCUMENT-IDENTIFIER: US 6528298 B1

h e b b cg b cc e

TITLE: .alpha.-amylase mutants

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|

☐ 14. Document ID: US 6361989 B1

L12: Entry 14 of 19

File: USPT

Mar 26, 2002

US-PAT-NO: 6361989

DOCUMENT-IDENTIFIER: US 6361989 B1

TITLE: .alpha.-amylase and .alpha.-amylase variants

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|

☐ 15. Document ID: US 6338959 B1

L12: Entry 15 of 19

File: USPT

Jan 15, 2002

US-PAT-NO: 6338959

DOCUMENT-IDENTIFIER: US 6338959 B1

TITLE: Gene for enzyme having both alkaline pullulanase and alkaline .alpha.-amylase activities

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|

☐ 16. Document ID: US 6309871 B1

L12: Entry 16 of 19

File: USPT

Oct 30, 2001

US-PAT-NO: 6309871

DOCUMENT-IDENTIFIER: US 6309871 B1

TITLE: Polypeptides having alkaline .alpha.-amylase activity

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|
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☐ 17. Document ID: US 5635468 A

L12: Entry 17 of 19

File: USPT

Jun 3, 1997

US-PAT-NO: 5635468

DOCUMENT-IDENTIFIER: US 5635468 A

TITLE: Liquefying alkaline .alpha.-amylase, process for producing the same, and detergent composition containing the same

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|
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☐ 18. Document ID: JP 2002112792 A

L12: Entry 18 of 19

File: JPAB

Apr 16, 2002

PUB-NO: JP02002112792A

DOCUMENT-IDENTIFIER: JP 2002112792 A

TITLE: HIGHLY PRODUCTIVE α -AMYLASE

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Da |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|---------|
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☐ 19. Document ID: US 20040265959 A1, EP 1199356 A2, JP 2002112792 A, CN 1348000 A, US 20020123124 A1, US 6743616 B2

L12: Entry 19 of 19

File: DWPI

Dec 30, 2004

DERWENT-ACC-NO: 2002-354203

DERWENT-WEEK: 200503

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TITLE: New mutant alpha-amylase, useful in detergent compositions, comprises increased productivity when prepared recombinantly and better resistance to heat

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Da |
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| L6 and bacillus and ksm-ap1378 | 19 |

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